

electric FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 275A, AC/DC COIL, 250... 500VAC/DC **ENERGY AND AUTOMATION**



Product designation			Power contactor
Product type designation Contact characteristics			BF195
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		100	
operational modules)	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	275
Operational current le			
	AC-1 (≤40°C)	Α	275
	AC-1 (≤55°C)	Α	230
	AC-1 (≤70°C)	Α	200
	AC-3 (≤440V ≤55°C)	Α	195
	AC-4 (400V)	Α	95
Rated operational current AC-3 (T≤55°C)			
	230V	Α	195
	400V	Α	195
	415V	Α	195
	440V	Α	195
	500V	Α	184
	690V	A	165
D. () () () () () () () () () (1000V	Α	85
Rated operational power AC-1 (T≤40°C)	0001		404
	230V	kW	104
	400V 500V	kW kW	181 199
	690V	kW	312
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	090 V	KVV	312
TEO Max current le in BOT with E/IX = 11113 with 1 poles in series	≤24V	Α	275
	48V	A	275
	75V	Α	275
	110V	Α	120
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
· ·	≤24V	Α	275
	48V	Α	275
	75V	Α	275
	110V	Α	170
	220V	Α	150
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	275
	48V	Α	275
	75V	Α	275



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	110V	Α	170
	220V	Α	150
	330V	Α	150
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	275
	48V	Α	275
	75V	Α	275
	110V	Α	275
	220V	Α	350
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
·	≤24V	Α	275
	48V	Α	275
	75V	Α	180
	110V	Α	90
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	2201	- / (
TEO THAN GUITOR TO IT BOO BOO WILL ETT = TOTHS WILL 2 police in some	≤24V	Α	275
	48V	A	275
	75V	A	180
	110V		140
		A	
IFC many assument to im DC2 DC5 with 1 /D < 15 may with 2 males in position	220V	A	100
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	<0.417	۸	075
	≤24V	A	275
	48V	A	275
	75V	Α	180
	110V	Α	160
	220V	Α	140
	330V	Α	100
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	275
	48V	Α	275
	75V	Α	180
	110V	Α	160
	220V	Α	160
	330V	Α	160
	460V	Α	100
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1560
Protection fuse			
	gG (IEC)	Α	315
	aM (IEC)	Α	250
Making capacity (RMS value)	,	Α	1658
Breaking capacity at voltage			
	440V	Α	1658
	500V	Α	1326
	690V	Α	1377
Resistance per pole (average value)		mΩ	0.18
Power dissipation per pole (average value)			
- - - \	Ith	W	13
	AC-3	W	6.7
Tightening torque for terminals			
5 · · · · · · · · · · · · · · · · · · ·	min	Nm	18
	max	Nm	18
	min	lbin	159
	max	Ibin	159
	Шах	ווטו	100



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Tightening torque for c	oil torminal			
rightening torque for c	oli terminai	min	Nm	0.8
		max	Nm	1
Power terminal protect	tion according to IEC/EN 60529	тих	14111	IP00
Mechanical features	1001 4000 dinig to 120/214 00020			11 00
Operating position				
operating position		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	4000
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	1000000
Safety related data				
	Od according to EN/ISO 13489-1			
	Ğ	rated load	cycles	1000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50	0/60Hz, 60Hz			
		min	V	250
		max	V	500
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	160230
	(50/0011 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	holding	VA	1.53.0
	of 50/60Hz coil powered at 60Hz		1.76	400 000
		in-rush	VA	160230
	of COLIZ anil naviored at COLIZ	holding	VA	1.53.0
	of 60Hz coil powered at 60Hz	عامريس منا	١/٨	160 220
		in-rush holding	VA VA	160230 1.53.0
Dissipation at holding :	<20°C 50Hz	noluling	W	1.53.0
DC coil operating	≥20 O JUI IZ		۷V	1.00.0
DC rated control voltage	NO.			
DO TAIGU COTILIOT VOILA	y c	min	V	250
			V	500 500
DC operating voltage		max	V	300
Do operating voitage	pick-up			
	ριοκ-αρ	min	%Us	85 Us min
		max	%Us %Us	110 Us max
		IIIAX	/003	110 03 max

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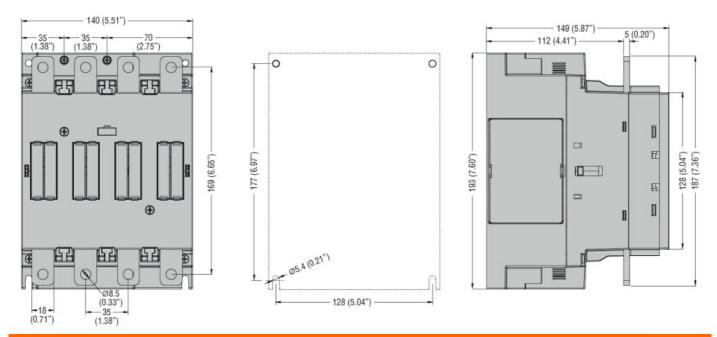
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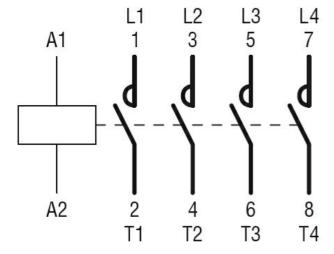
	drop-out			
	arop out	max	%Us	≤70 Us min
Average coil consump	otion ≤20°C			
		in-rush	W	160230
		holding	W	1.53.0
Max cycles frequency				
Mechanical operation			cycles/h	1000
Operating times	o material.			
Average time for Us c	in AC			
	Closing NO			
	Closing NO	min	ms	50
		max	ms	100
	Opening NO	max	1113	100
	Opening IVO	min	ms	35
		max	ms	75
UL technical data				
Yielded mechanical pe	erformance			
·	for three-phase AC motor			
	·	200/208V	HP	60
		220/230V	HP	75
		460/480V	HP	150
		575/600V	HP	150
General USE				
	Contactor			
		AC current	Α	275
Short-circuit protection				
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	400
		Fuse class		J
	Standard fault	01 ()		4.0
		Short circuit current	kA ^	10
		Fuse rating	Α	400 RK5
Ambient conditions		Fuse class		CAN
Temperature				
romperature	Operating temperature			
	Operating temperature	min	°C	-40
		max	°C	70
	Storage temperature	max		. •
	gp	min	°C	-50
		max	°C	80
Max altitude			m	3000
Resistance & Protecti	on			
Pollution degree				3
Dimensions				

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Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching